

Figure 1.

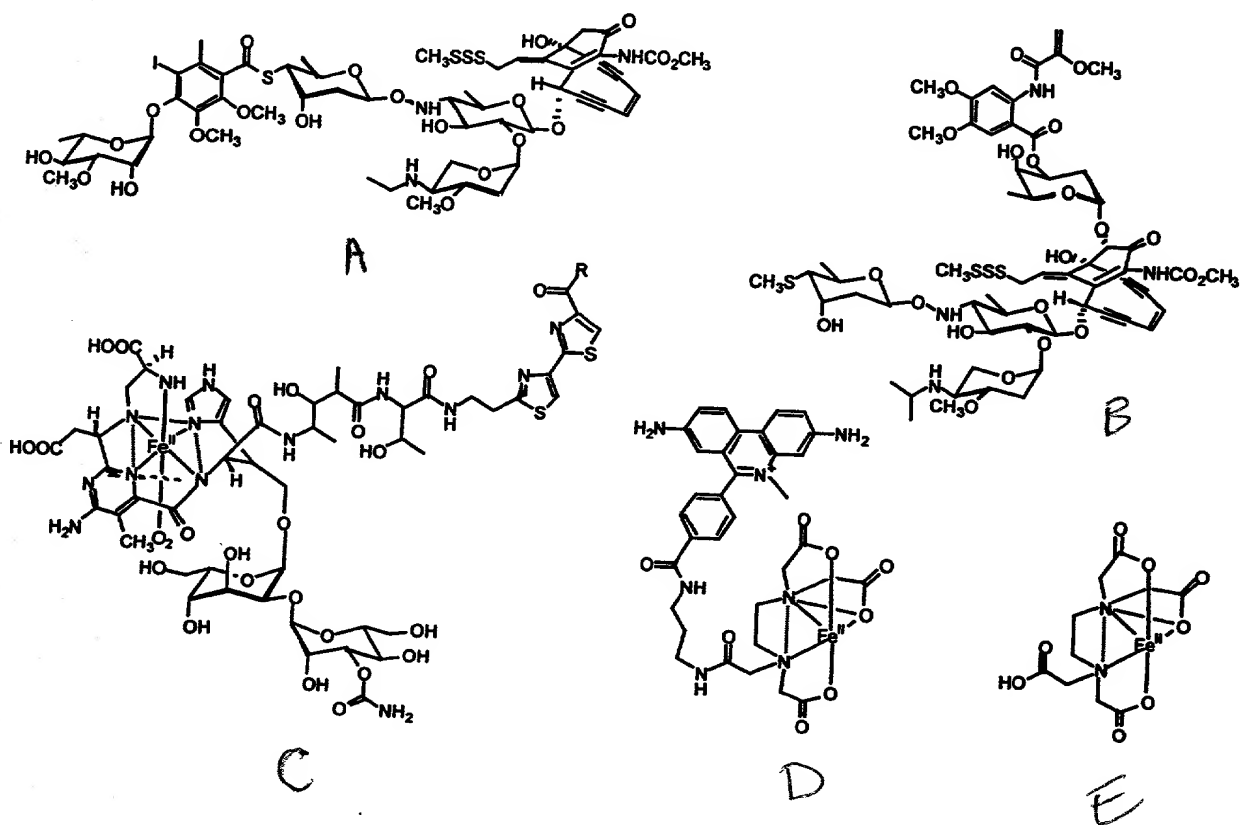


Figure 2.

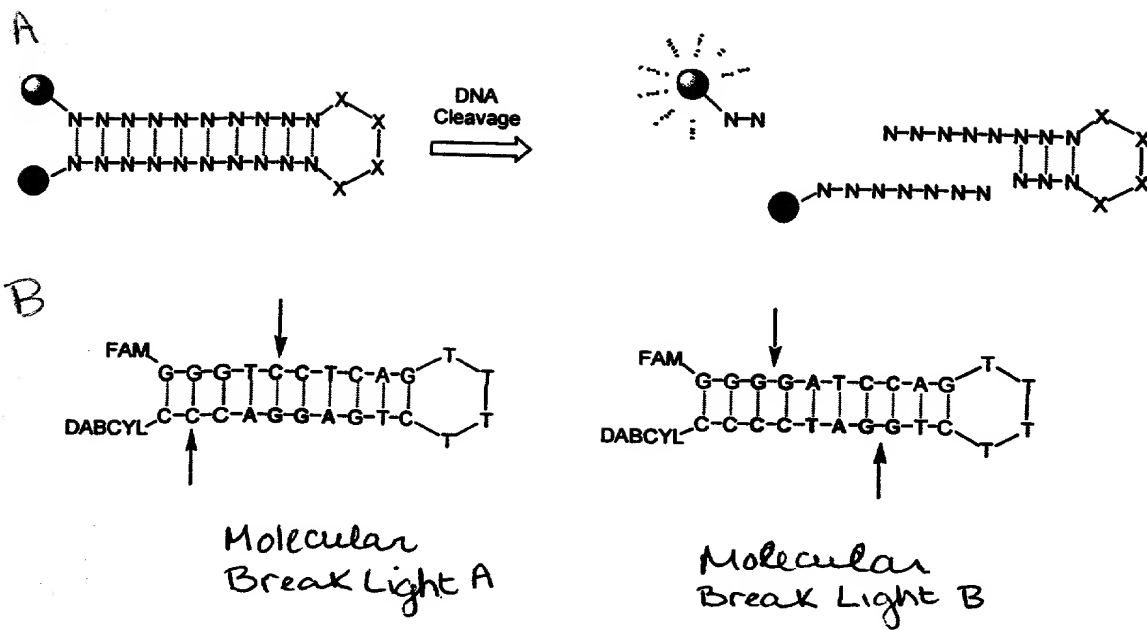


Figure 3.

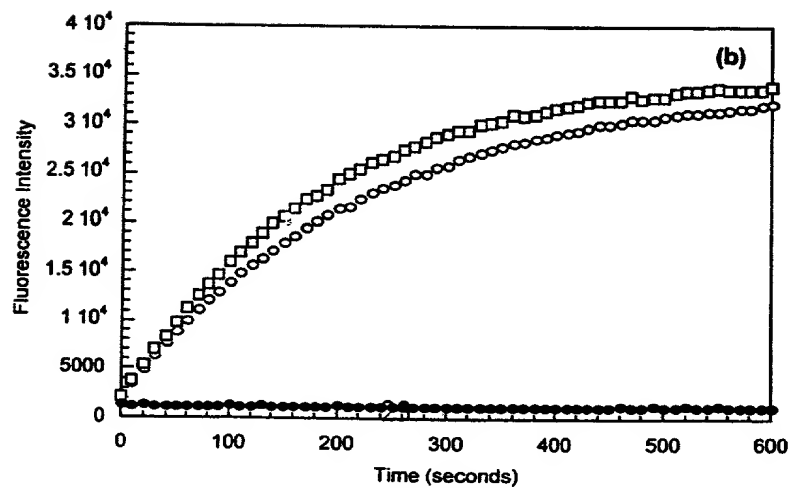
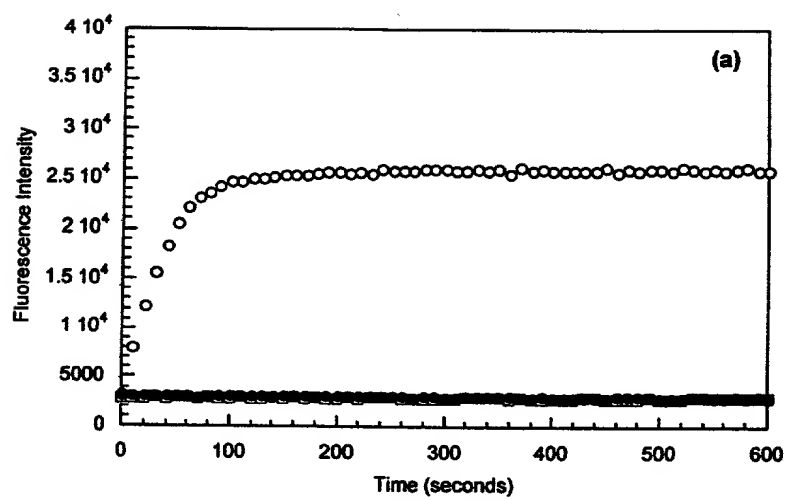


Figure 4.

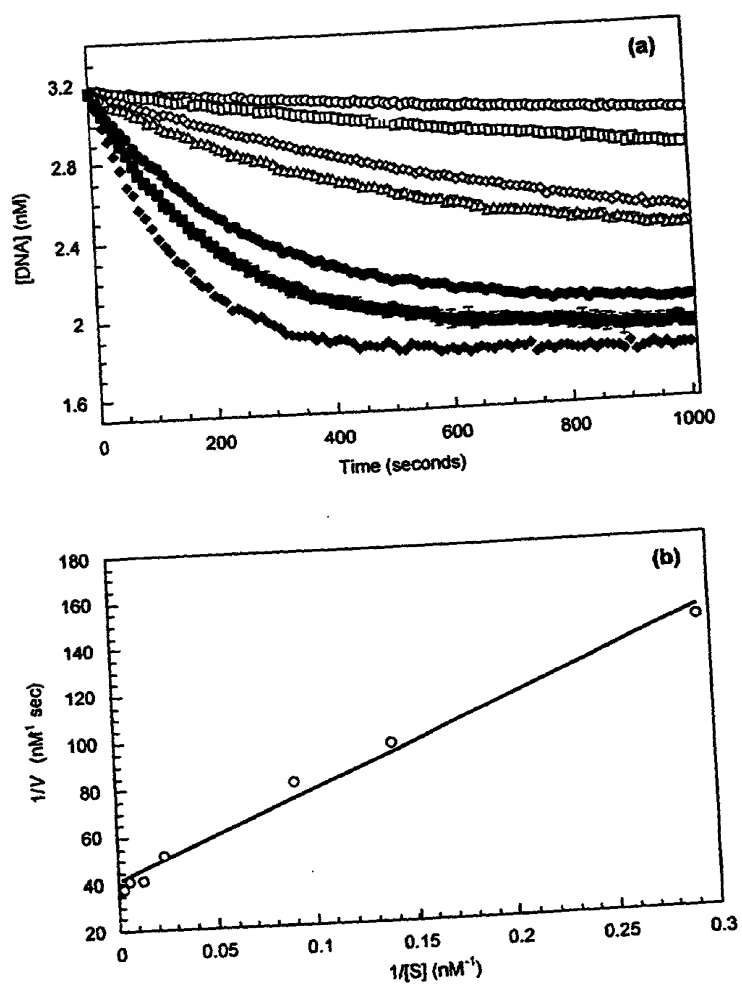
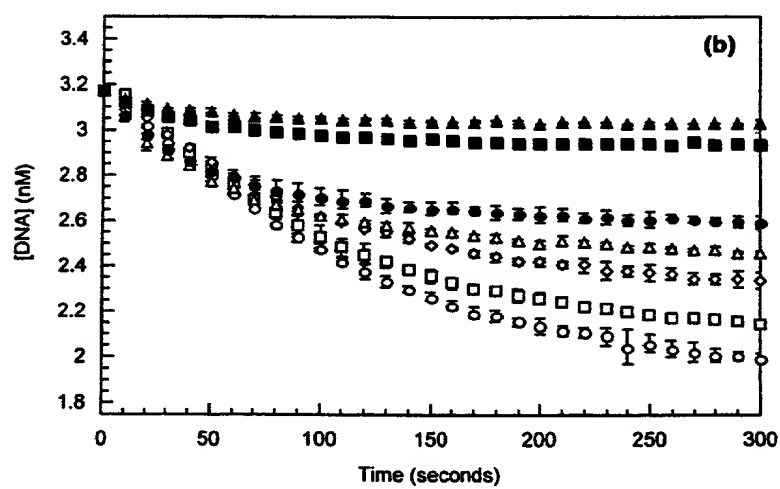
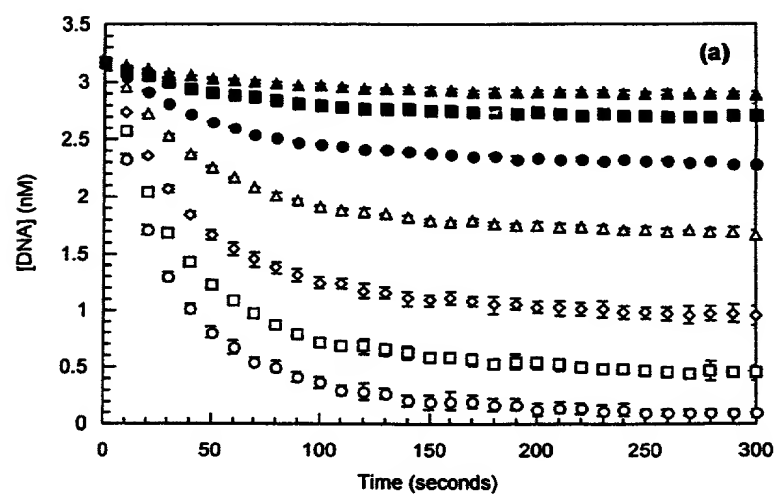


Figure 6.



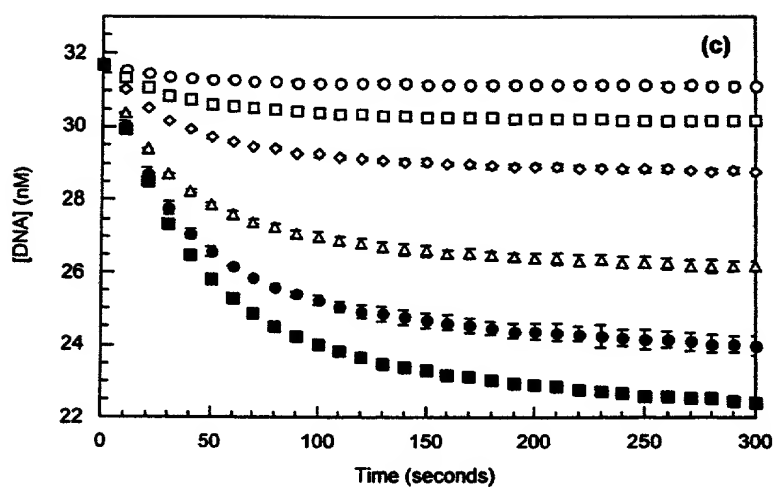


Figure 6 (continued).

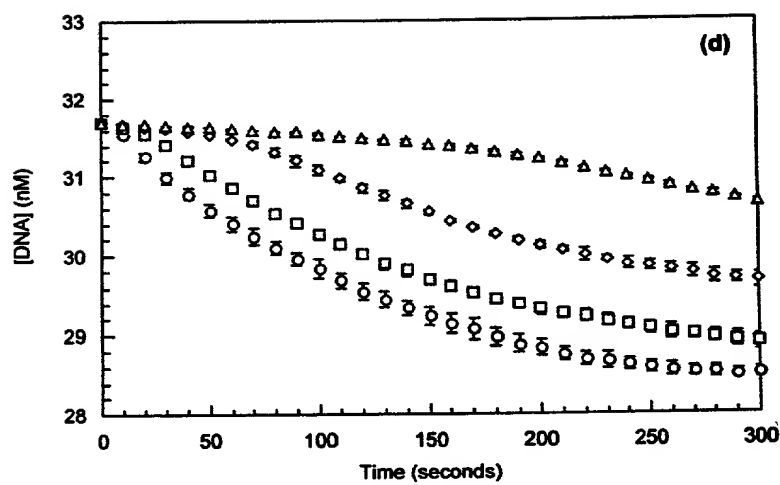


Figure 6 (continued).

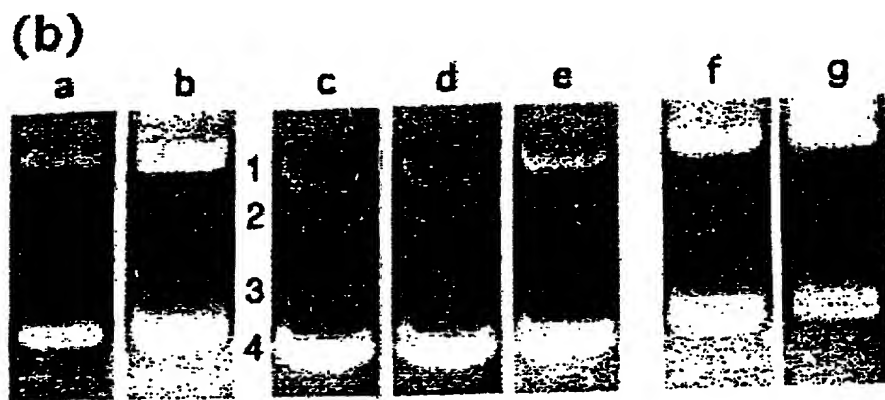
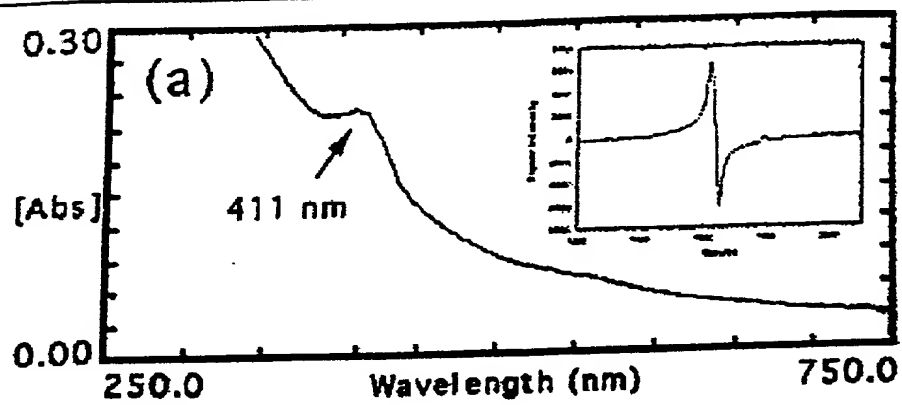


Fig. 7

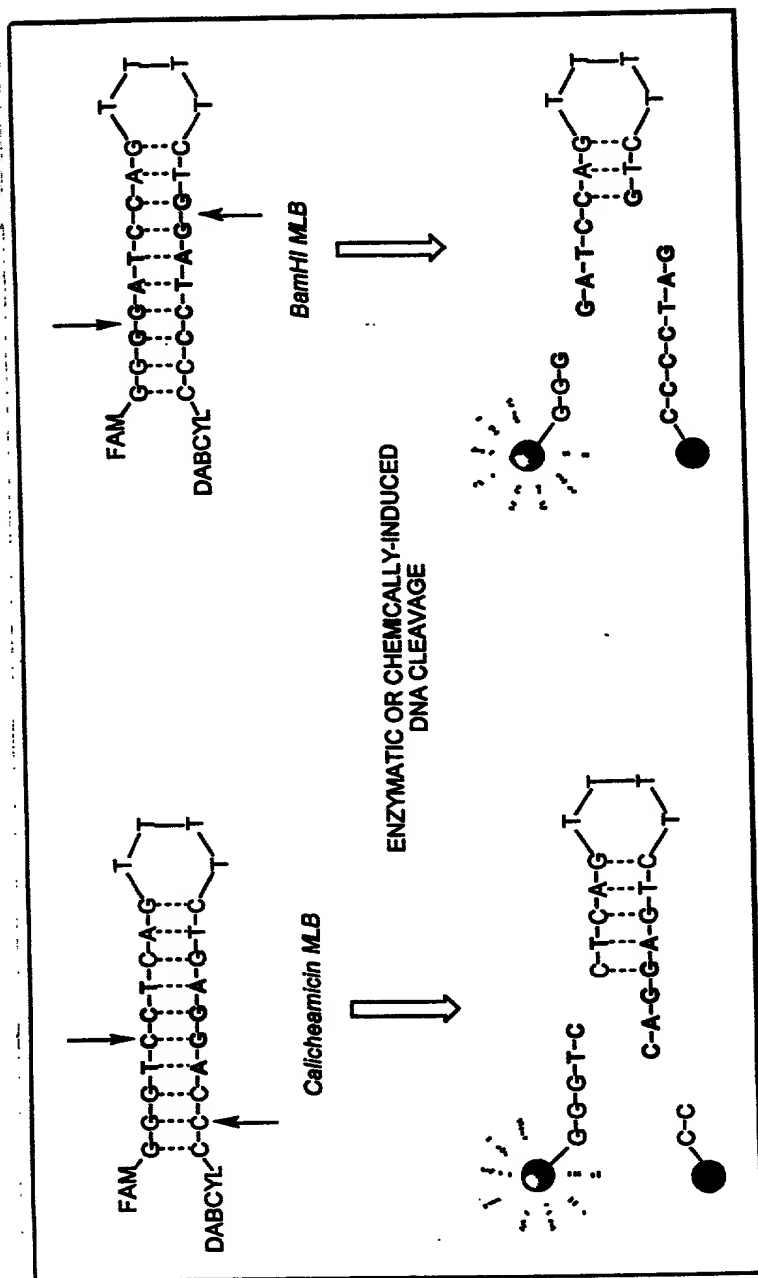


Fig 8

CalC (nmol)

0.0

1.3

2.6

3.9

5.2

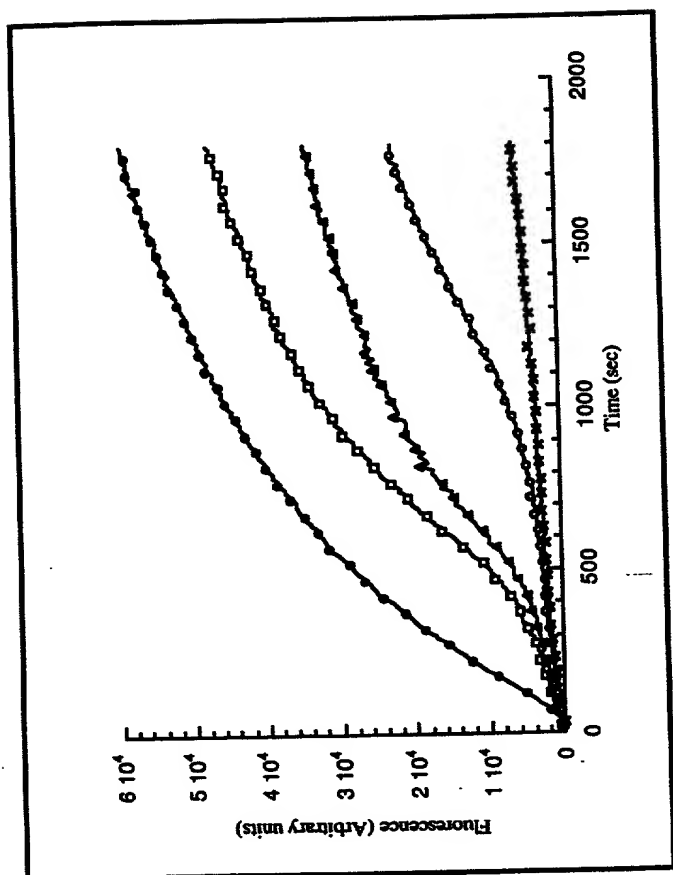


Fig 9

Table 1. A comparison of cleavage efficiencies.

Agent		V_{\max} (nM sec ⁻¹)	Turnover (sec ⁻¹) ^a	Comparison to EDTA ^b
enzymatic	<i>BamHI</i>	0.024 ± 0.001	0.007 ^c	4.8 × 10 ⁵
	<i>Esperamicin A₁</i>	0.007 ± 0.001 ^d	0.009	6.1 × 10 ⁵
	<i>Calicheamicin γ₁^I</i>	0.011 ± 0.002 ^d	0.007	4.8 × 10 ⁵
small	<i>Bleomycin</i>	0.009 ± 0.001 ^d	0.001	6.8 × 10 ⁴
molecule	<i>Methidiumpropyl-EDTA</i>	0.003 ± 0.001 ^d	2.4 × 10 ⁻⁵	1.6 × 10 ³
catalyzed	<i>Methidiumpropyl-EDTA</i>	0.118 ± 0.004 ^e	0.002	1.6 × 10 ³
	<i>EDTA</i>	0.002 ± 0.001 ^e	1.5 × 10 ⁻⁶	1.0

^adefined as $V_{\max}/[\text{Agent}]$; ^bfold enhancement over EDTA turnover; ^calso known as k_{cat} ; ^d[DNA]_{total} = 3.2 nM; ^e[DNA]_{total} = 32 nM